

L Number	Hits	Search Text	DB	Time stamp
1	19	global\$4 near4 distribut\$5 near4 directory	USPAT; EPO	2003/04/23 10:43
3	6	synchro\$5 adj distribut\$6 adj (database\$5 directory)	USPAT	2003/04/23 11:15
4	1	6546387.pn. and ((adding add delet\$5 remov\$5 replac\$5 overlay\$5) same (chang\$5 updat\$6))	USPAT	2003/04/23 11:34
5	0	relica near6 directory	USPAT	2003/04/23 11:34
6	54	replica near6 directory	USPAT	2003/04/23 11:34
-	11	"837584"	USPAT; EPO	2003/04/22 15:54
-	5	"847020"	USPAT; EPO	2003/04/23 10:41
-	16	"837584"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/04/21 14:51
-	1	("5787470").PN.	USPAT	2003/04/21 16:19
-	0	((("5787470").PN.) and directory	USPAT	2003/04/21 16:11
-	55	(updat\$6 with directory) and (packet near switch\$5 near network\$5)	USPAT	2003/04/21 16:22
-	15	((updat\$6 with directory) and (packet near switch\$5 near network\$5)) and (707/\$ 709/\$).ccls.	USPAT	2003/04/21 16:21
-	4	((web near site\$5) with directory) and (packet near switch\$5 near network\$5)	USPAT	2003/04/21 16:27
-	51	((web site\$5) with directory) and (packet near switch\$5 near network\$5)	USPAT	2003/04/21 16:23
-	685	content with (manag\$6 and server\$5)	USPAT	2003/04/21 16:28
-	162	(content with (manag\$6 and server\$5)) and (search near engin\$5)	USPAT	2003/04/21 16:29
-	32	(content with (manag\$6 and server\$5)) and (search near engin\$5) and @pd<20000601	USPAT	2003/04/21 16:30
-	32	(content with (manag\$6 and server\$5)) and (search near engin\$5) and @pd<20000601	USPAT	2003/04/21 16:57
-	1	("6098096").PN.	USPAT	2003/04/21 16:56
-	240	database\$3 with (modif\$9 updat\$6) with directory	USPAT	2003/04/21 17:00
-	1	database\$3 with (modif\$9 updat\$6) with directory with categori\$6	USPAT	2003/04/21 16:59
-	0	(database\$3 with (modif\$9 updat\$6) with directory with categori\$6) and @pd<20000601	USPAT	2003/04/21 16:57
-	136	(database\$3 with (modif\$9 updat\$6) with directory) and @pd<20000601	USPAT	2003/04/21 17:12
-	4	database\$3 with (modif\$9 updat\$6) with directory with (web www)	USPAT	2003/04/21 17:00
-	70	database\$3 same (modif\$9 updat\$6) same directory same (web www)	USPAT	2003/04/21 17:10
-	2017	(content\$5 database\$3) same (track\$6 modif\$9 updat\$6) same (web www)	USPAT	2003/04/21 17:13
-	13	(database\$3 same (modif\$9 updat\$6) same directory same (web www)) and @pd<20000601	USPAT	2003/04/21 17:13
-	682	((content\$5 database\$3) same (track\$6 modif\$9 updat\$6) same (web www)) and @pd<20000601	USPAT	2003/04/21 17:34
-	1	6055570.pn. and database\$5	USPAT	2003/04/21 17:41
-	1	6055570.pn. and (updat\$6 with table)	USPAT	2003/04/21 17:48
-	1	6055570.pn. and (content near site\$3)	USPAT	2003/04/21 17:53
-	1	6055570.pn. and (notificat\$6)	USPAT	2003/04/21 17:56
-	1	6055570.pn. and (table)	USPAT	2003/04/22 10:09
-	1	6055570.pn. and (updat\$6)	USPAT	2003/04/22 10:14
-	0	6055570.pn. and (catalog\$6)	USPAT	2003/04/22 10:15
-	58	(content\$3 near (track\$6 monitor\$5)) and (content\$3 near manag\$6)	USPAT	2003/04/22 16:10
-	1	6546387.pn. and director\$4	USPAT	2003/04/22 16:42
-	1	6546387.pn. and report\$4	USPAT	2003/04/22 16:43
-	1	6546387.pn. and ((information adj provider\$5) '60')	USPAT	2003/04/22 16:58
-	1	6546387.pn. and (categor\$9)	USPAT	2003/04/22 17:09
-	1	6546387.pn. and (name file\$3 time\$5 date\$3 )	USPAT	2003/04/22 17:30

-	1	6539381.pn. and (change\$5 with (first second third))	USPAT	2003/04/22 17:37
-	1	6539381.pn. and (director\$5)	USPAT	2003/04/22 17:43
-	35	(web adj site\$3) with (network adj server)	USPAT	2003/04/22 17:43
-	0	6539381.pn. and (web www)	USPAT	2003/04/22 17:51
-	1	6539381.pn. and (director\$5 near9 (chang\$5 updat\$5))	USPAT	2003/04/22 17:52
-	73	changed adj directory	USPAT	2003/04/22 17:53


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... Asynchronous: **Synchronous Distributed Database**: ... Timestamping: A **globally** unique timestamp is assigned to each transaction. ... Used in **distributed database**. ...

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... The data movement generated by queries to the. **globally-distributed database** must be optimized. ... **Distributed Databases**. ... **synchronous** and asynchronous delivery. ...

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... a` it is **synchronous** within one state transition, and. ... **Distributed Database** Management (C) 1994 M. Tamer O'zsu & Patrick ... a` Terminate by **globally** committing. ...

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# MODERN DATABASE MANAGEMENT

## GLOSSARY

### Chapter Eleven

- Asynchronous distributed database** A form of distributed database technology in which copies of replicated data are kept at different nodes so that local servers can access data without reaching out across the network. *See also* Synchronous distributed database.
- Commit protocol** An algorithm to ensure that a transaction is successfully completed, or else it is aborted. *See also* Timestamping, Two-phased commit.
- Concurrency transparency** A design goal for a distributed database, with the property that although a distributed system runs many transactions, it appears that a given transaction is the only activity in the system. Thus, when several transactions are processed concurrently, the results must be the same as if each transaction were processed in serial order. *See also* Failure transparency, Location transparency, Replication transparency.
- Decentralized database** A database that is stored on computers at multiple locations; however, the computers are not interconnected by a network, so that users at the various sites cannot share data. *See also* Distributed database.
- Distributed database** A single logical database that is spread physically across computers in multiple locations that are connected by a data communications link. *See also* Asynchronous distributed database, Decentralized database, Synchronous distributed database.
- Failure transparency** A design goal for a distributed database, which guarantees that either all the actions of each transaction are committed or else none of them is committed. *See also* Concurrency transparency, Location transparency, Replication transparency.

<b>Fragmentation transparency</b>	<i>See</i> Replication transparency.
<b>Global transaction</b>	In a distributed database, a transaction that requires reference to data at one or more nonlocal sites to satisfy the request. <i>See also</i> Local transaction.
<b>Local autonomy</b>	A design goal for a distributed database, which says that a site can independently administer and operate its database when connections to other nodes have failed.
<b>Local transaction</b>	In a distributed database, a transaction that requires reference only to data that are stored at the site where the transaction originates. <i>See also</i> Global transaction.
<b>Location transparency</b>	A design goal for a distributed database, which says that a user (or user program) using data need not know the location of the data. <i>See also</i> Concurrency transparency, Failure transparency, Replication transparency.
<b>Replication transparency</b>	A design goal for a distributed database, which says that although a given data item may be replicated at several nodes in a network, a programmer or user may treat the data item as if it were a single item at a single node. Also called fragmentation transparency. <i>See also</i> Concurrency transparency, Failure transparency, Location transparency.
<b>Semijoin</b>	A joining operation used with distributed databases in which only the joining attribute from one site is transmitted to the other site, rather than all the selected attributes from every qualified row.
<b>Synchronous distributed database</b>	A form of distributed database technology in which all data across the network are continuously kept up-to-date so that a user at any site can access data anywhere on the network at any time and get the same answer. <i>See also</i> Asynchronous distributed database.
<b>Timestamping</b>	In distributed databases, a concurrency control mechanism that assigns a globally unique time stamp to each transaction. Timestamping is an alternative to the use of locks in distributed databases.

<b>Transaction manager</b>	In a distributed database, a software module that maintains a log of all transactions and maintains an appropriate concurrency control scheme.
<b>Two-phase commit</b>	An algorithm for coordinating updates in a distributed database.

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